

# TECHNICAL SPECIFICATION

## Stork PowerSleeve

PowerSleeve is a field applied composite system that consists of a range of woven materials including an E-glass and Kevlar® hybrid and carbon fibre fabric with high performance epoxy resulting in a powerful piping reinforcement and leak repair product.

Our industry leading kit format provides all the necessary tools for a professional installation. During production the fabric is cut to length and the epoxy components are factory pre-measured and sealed.

This eliminates the need for measuring and weighing in the field, which can be cumbersome and inaccurate.

PowerSleeve is available with your choice of up to five different epoxy systems for almost any application. Whether it is a cold climate, high-heat or harsh chemical, there is a system to suit your need.

A unique resin formulation is also available for splashzone, wet conditions and underwater repairs with leak sealing capabilities. For substrates with restricted surface preparation that cannot withstand abrasive blasting, a further range of PowerSleeve epoxies are available.

PowerSleeve has been used worldwide to repair damaged and corroded piping. Whether it's the deserts of Egypt or the cold mist of the North Sea, PowerSleeve has been there to provide a composite solution to the oil, gas, refining, and power generation industries.



### Types of repair:

- Leak repairs
- Abrasion / wear resistance
- Bend repairs
- Corrosion mitigation
- Cracks
- Dents / gouges
- Encapsulation
- Full hoop / axial strength replacement



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## Stork PowerSleeve Capabilities

The table below defines key differentiators between Stork PowerSleeve and what is currently available within the market place. Stork PowerSleeve has a higher specification in each critical parameter including pressure, temperature accreditations and the areas the system can be utilised on is much more diverse due to the various compositions of material that are available.

SPECIFICATIONS	POWERSLEEVE	ALTERNATIVE
Complimented by a range of high-performance epoxy resins coatings and fillers that displace water and oil	YES	NO
Can be used in damp environments/splashzone using a special resin	YES	NO
Tested to 8200psi (565 bar) with no failure	YES	NO
Compressive strength psi	40,300	No data
Tensile strength (warp direction) psi	58,088	No data
Tensile strength (fill direction) psi	45,400	No data
Operating Temperature	-40°C to 232°C	Up to 220°C
ISO/TS 24817 compliant calculations included in the price	YES	NO
ISO 9001:2008 compliant for manufacture and distribution of composite wrap materials	YES	NO

### Benefits and added value:

- Provides significant cost savings
- Flexible and bespoke composite wrap solution
- Its low profile enables use in tight locations, within an inch of an obstruction in some cases

